



UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION I
2100 RENAISSANCE BOULEVARD, SUITE 100
KING OF PRUSSIA, PENNSYLVANIA 19406-2713

January 4, 2013

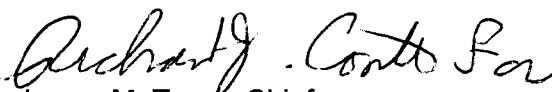
LICENSEE: NextEra Energy Seabrook, LLC (NextEra)
FACILITY: Seabrook Station, Unit 1 (Seabrook)
SUBJECT: SUMMARY OF MEETING REGARDING STATUS OF DEGRADED CONCRETE
HELD ON DECEMBER 11, 2012

On December 11, 2012, the U.S. Nuclear Regulatory Commission (NRC) conducted an open house, followed by a public meeting, at the One Liberty Lane Conference Center in Hampton, NH. The NRC conducted the open house and public meeting to discuss the safety implications and status of its review of NextEra's commitment actions related to the Alkali-Silica Reaction (ASR) conditions in safety-related structures at Seabrook Station. The commitments are documented in a May 16, 2012, Confirmatory Action Letter (CAL) No. 2012-002 (ADAMS Accession No. ML12125A172).

A notice of the open house and public meeting was issued on November 19, 2012, and was posted on the NRC's external (public) web page (ADAMS Accession No. ML12324A218). ADAMS is accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

The NRC presented poster boards during the open house and answered questions from individuals. Following the open house, the NRC presented slides during the public meeting to discuss the results of its first CAL follow-up inspection related to the adequacy of NextEra's actions to address the impact of ASR on reinforced concrete structures, as documented in Inspection Report No. 05000443/2012009 (ADAMS Accession No. ML12338A283). The NRC slides presented (ADAMS Accession No. ML12356A043) included a description of the ASR process, virtual tour of the plant, safety implications, inspection results to date, and future inspection activities.

Members of the public, local officials, state officials, and members of the media attended the meeting and were offered the opportunity to question the NRC regarding NextEra's commitments and the safety implications related to Seabrook. There were no "take-away" actions from this meeting for the NRC staff.


James M. Trapp, Chief
Engineering Branch 1
Division of Reactor Safety

Enclosures:

- 1) List of Attendees
- 2) CAL Response Status
- 3) List of References

cc w/encl: Distribution via ListServ

LICENSEE: NextEra Energy Seabrook, LLC (NextEra)

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/RA/

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Engineering Branch 1
Division of Reactor Safety

Enclosures:

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DOC NAME: G:\DRS\Seabrook Concrete\Media-Pub\For ShPt Pub Mtg 12-2012\Meeting Summary\SB Meeting Summary 12-11-2012.docx
ADAMS Accession No.: ML13004A178

<input type="checkbox"/> SUNSI Review		<input checked="" type="checkbox"/> Non-Sensitive <input type="checkbox"/> Sensitive		<input checked="" type="checkbox"/> Publicly Available <input type="checkbox"/> Non-Publicly Available	
OFFICE	*RI/DRS	*RI/DRS	RI/DRP	RI/DRS	
NAME	NFloyd*	RConte	DSchroeder	JTrapp/RC	
DATE	12/21/12	12/27/12	1/3/13	1/4/13	

* see previous concurrence

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J. Clifford, DRS (RIORAMAIL RESOURCE)
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D. Schroeder, DRP
L. Cline, DRP
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A. Turilin, DRP
W. Raymond, DRP, SRI
S. Rich, DRP, Acting SRI
M. Jennerich, DRP, RI
A. Cass, DRP, AA
C. Santos, RI OEDO
RidsNrrPMSeabrookResource
RidsNrrDorlLpl1-2 Resource

ENCLOSURE 1



**SEABROOK STATION
ASR PUBLIC MEETING
DECEMBER 12, 2012
ATTENDANCE LIST**

Attendee	Organization
BRUCE SKUD	NO MORE FUKUSHIMA
Rick Noble	Nextera
Julie LeBeau	Nextera
Chris Pond	C-10
HERB MOYER	S.A.P.L.
Christian O'Rourke	Union of Concerned Scientists
Joan Bailly	No. M. Fu!
Sam Banz	" " "
Tom Barber	SAPL

ENCLOSURE 1

Attendee	Organization	
DON TILBURY		
James Metcalf		
Alan Smith		
Victor Azzi		
Darvin Kapitz		
MARK STRUM		
Ted Messier		
Alexander Torres		
Dwight Sheppard		
John Garavito, MEMA	MEMA	
Ni S. Kodat NextEra	Nextera	

ENCLOSURE 1

Attendee	Organization	
Jim Kay		
Gary Pud	Sciencetech	
LEO LESSARD	AREVA	
JOE RAYAPPU	AREVA	
Susan Hanam	AREVA	
Robert Benson	AREVA	
<i>[Signature]</i>	Areva	
Tony Cerne	Self	
Edward Carley	Nexteed	
Doug Borgen	SAPC	
Karen Kelly-Alger	Citizen - no org. affiliation	

ENCLOSURE 1

Attendee	Organization	
PAUL WILLOUGHBY	NEXT FUTURE ENERGY SERVICES	
ELSE ANDREWS	SAPL	
Angelin Charamide	Daily News of Newburgport	
Sandra Cavatis	C-10 Foundation	
Diane Becker	DH HSEM	
Rick CLICHE	NEXTERA	
DAVID GRESS	SELF	
Linda Cooper	SELF	
Elaine Andrews Ahearn	House of Rep. Self District 37	
MICHAEL OSSING	NEXT ERA	
Naveen Meagher	Next Era	

ENCLOSURE 1

Attendee	Organization	
Tim Didson		
Don Chase	Curtain Weight	
FRED ANDERSON	SELF	
Alex Curley	Self	
WALT SIBLEY	SELF	
Tom Vehel	NEXT ERA Seabrook	
Tom Waechter	Next Era Seabrook	
James Connolly	Next Era Energy Seabrook	
CATHY WOLFE	self	
Douglas Phillips	ACUMEN	
DAEIN SWINN	CONGRESSMAN JOHN TIERNEY	

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ENCLOSURE 1

Attendee	Organization	
JERRY KOTKOWSKI	NEXTEra ENERGY / CITIZEN OF HAMPTON	
Andrew Hodgdon		
Ari Herzog	Newburyport City Council	
Ed Cameron	NEWBURYPORT CITY Council	
MIKE WELSH	RESIDENT	
John Welsh	resident	
Robert Kaplan		
Jacob DeWitte	MIT	
Caroline Cochran	MIT	
Nathan Andrews	MIT	

ENCLOSURE 1



**SEABROOK STATION
ASR PUBLIC MEETING
DECEMBER 12, 2012
ATTENDANCE LIST**

Attendee	Organization
HERB MOYER	S.A.P.L.
Deane Becker	10 th HSEI
Ali S. Kodak	NextEra
Caroleyn Johnson	C-10
Lathy Pozuniec	C-10
Collie Nelson	C-10
Anna O'Leary	Senator Sheehan's office
Peter J. Tutinas	NextEra Seabrook
Kathleen O'Connor Ives	Massachusetts State Senate First Essex District

ENCLOSURE 1

Attendee	Organization	
TOM HENSON	LUNA LABORERS LOCAL 976	
SHIR HAZENMAH	PARIS HERALD	
Rep Renny Cushman	N.H. House of Representatives	
Mary McCutty	—	
REP. MIKE COSTELLO	STATE HOUSE BOSTON, MASS	
Rep Jackie Calhoun-Pitts	STATE HOUSE NH	

ENCLOSURE 2
CAL Response Status
12/3/12

STATUS	Sub-LEAD	OTHER	LICENSEE DOC.	CAL ITEM
CL RPT 1	EB1	Lic. Compl.	AR 581434 Rev. 2 uploaded to internal file 5/23/12	1. Revise the prompt operability determination (POD) associated with AR581434, 'Reduced Concrete Properties Below Grade in "B" Electrical Tunnel Exterior Wall,' by May 25, 2012. NextEra Energy Seabrook will notify the site NRC Resident Inspector upon completion of this action.
CL/OP RPT1	EB1	Licensee Planning to Revise	Ltr 5/24/12 – ADAMS Accession No. ML12151A396 Ltr & Encl. 1	2. Submit the root cause for the organizational causes associated with the occurrence of ASR at Seabrook Station and related corrective actions by May 25, 2012.
CL RPT1	DE/DLR	Lic. Compl.	Ltr 5/24/12 – ADAMS Accession No. ML12151A397 Encl. 2	3. Submit the evaluation, "Impact of ASR on Concrete Structures and Attachments," (Foreign Print 100716) by May 25, 2012.
Under NRC Review RPT2	DE/DLR	Lic. Compl.	Ltr 6/8/12 – ADAMS Accession No. ML12171A277	4 Submit the corrective action plan for the continued assessment of ASR in concrete structures at Seabrook Station including development of remedial actions to mitigate the affects of ASR, where warranted, by June 8, 2012.
CL RPT1	EB1	Lic. Compl.	AR 01664399/AR 1757861 Rev. 2 uploaded to internal file 6/25/12	5. Revise the POD associated with AR1664399, 'Reduced Concrete Modulus of Elasticity Below Grade in Containment Enclosure Building, RHR Equipment Vaults, EFW Pump House, and Diesel Generator Fuel Oil Storage Rooms,' by June 30, 2012. The expanded scope buildings will be included in this POD. NextEra Energy Seabrook will notify the site NRC Resident Inspector upon completion of this action.
CL RPT 1	EB1	Lic. Compl.	6/29/12 FP 100734 uploaded to internal file.	6. Complete short term aggregate expansion testing (ASTM C 1260 Mortar Bar Expansion Test) by June 30, 2012. Results will be available for NRC review approximately 30 days after testing is complete.
Due June 2013 RPT 2	EB1	Licensee Planning to Revise	NextEra discussed planned changes with inspection staff – Letter Revision, TBD	7. Complete long term aggregate expansion testing (ASTM C 1293 Concrete Prism Test) by June 30, 2013. Results will be available for NRC review approximately 30 days after testing is complete.

ENCLOSURE 2

STATUS	BRANCH LEAD	OTHER	LICENSEE DOC.	CAL ITEM
Under NRC Review RPT2	DE/DLR	Lic. Compl.	Ltr 6/21/12 – ADAMS Accession No. ML12179A281 and Encl. ML 12179A282	8. Submit the technical details of the testing planned at the contracted research and development facility by June 30, 2012.
Under NRC Review RPT 2	EB1 DLR issuing AMP questions related to this area by end of Aug 2012	Lic. Compl.	7/16/12 EDS 36180 uploaded to internal file.	9. Update the Maintenance Rule Structures Monitoring Program to include monitoring requirements for selected locations in areas that exhibit ASR by July 15, 2012. NextEra Energy Seabrook will notify the site NRC Resident Inspector upon completion of this action.
Under NRC Review RPT 1/2	EB1	Lic. Compl.	7/16/12 FP 100738 uploaded to internal file.	10. Perform the initial six-month interval crack measurements and crack indexing at 20 locations in areas that exhibit the highest crack indices by July 15, 2012. Crack measurement will be performed at six-month intervals until a reliable trend of ASR progression is established. NextEra Energy Seabrook will notify the site NRC Resident Inspector upon completion of this action.
Due Dec. 2012 RPT 2	EB1	Licensee Planning to Revise	At the FSEL - NextEra discussed planned changes with inspection staff – Letter Revision, TBD	11. Complete anchor test program by December 31, 2012. Results will be available for NRC review approximately 30 days after testing is complete.
Under NRC Review. RPT 1/2	EB1	Ph I and II Lic. Compl. Item in Phase III Done last outage	Walkdown Uploaded to internal file as are Primary Containment Eng. Eval. & OD.	Not a CAL item since it was assumed to be completed or new completion at the time of the management meeting of April 23, 2012 – Phase III was noted during the meeting a issue to be completed – this is where Primary Containment indications were noted and report to the ACRS.

Re: Commitments made by NextEra in Letters, dated May 3 and May 10, 2012 (Agencywide Documents and Management System (ADAMS) Accession Numbers ML12125A022 and ML12131A479, respectively),

Report No. 1 (RPT 1): 050004432012009, Ended 11/2/12 – Issued 12/3/12
 Report No. 2 (RPT 2): 050004432012010 to End – TBD

ENCLOSURE 3

Confirmatory Action Letter for Alkali-silica Reaction Issue at Seabrook

Related List of References and ML Nos.

NRC Documents:

1. NRC Inspection Report No. 0500433/2011010, issued March 26, 2012 (ADAMS Accession No. ML120480066)
2. Management Meeting of April 23, 2010, Meeting Notice (ADAMS Accession No. ML1132360175)
3. Management Meeting of April 23, 2010, NRC Questions/Slides/Summary (ADAMS Accession Nos. ML121040102/ML121160333, ML121160433, and ML121220109)
4. Confirmatory Action Letter No. 2012-002, dated May 16, 2012 (ADAMS Accession No. ML12125A172)
5. Transcript of Advisory Committee on Reactor Safety (ACRS) Plant License Renewal Subcommittee Meeting of July 10, 2012, issued July 25, 2012 (ADAMS Accession No. ML122070401)
6. NRC Staff Alkali-Silica Reaction (ASR) Working Group Charter, issued July 9, 2012 (ADAMS Accession No. ML121250588, publicly available September 14, 2012)
7. NRC Staff Memorandum, issued September 5, 2012, on Request for Deviation from the Reactor Oversight Process Action Matrix to Provide Increased Oversight of the Alkali-Silica Reaction Issue at Seabrook (ADAMS Accession No. ML12242A372)
8. Letter to NextEra, issued September 12, 2012, Transmitting the Memorandum Related to the Deviation from the Reactor Oversight Process Action Matrix for Seabrook Station No. 1 (ADAMS Accession No. ML12242A363 (ADAMS Package))
9. NRC Inspection Report No. 0500433/2012009, issued December 3, 2012 (ADAMS Accession No. ML12338A283)
10. Letter to C-10, D. Grinnell, issued December 3, 2012, Transmitting Answers to Questions Related to Seabrook ASR at Seabrook Station No. 1 (ADAMS Accession No. ML12339A233)
11. Letter to C-10, S. Gavutis, issued December 3, 2012, Response to Letter of September 13, 2012 (ADAMS Accession No. ML 12339A204)

ENCLOSURE 3

12. Letter to Union of Concerned Scientists – D. Wright, issued December 3, 2012, Response to Letter of September 13, 2012 (ADAMS Accession No. ML 12339A322)

Licensee Documents (Publicly Available):

13. Management Meeting of April 23, 2010, NextEra/Consultant Slides (ADAMS Accession Nos. ML121160349, ML121160414, and ML121160422)
14. NextEra letters, dated May 3, 2012, "Actions for Resolution of Alkali Silica Reaction (ASR) Issues" and, dated May 10, 2012, "Supplement to Actions for Resolution of Alkali Silica Reaction (ASR) Issues," (ADAMS Accession Nos. ML12125A022 and ML12131A479, respectively)
15. NextEra Letter of May 24, 2012, Letter and Enclosure 1 for CAL Item 5, "Submit the root cause for the organizational causes associated with the occurrence of ASR at Seabrook Station and related corrective actions by May 25, 2012" (ADAMS Accession No. ML12151A396)
16. NextEra Letter of May 24, 2012, Enclosure 2 for CAL Item 3, "Submit the evaluation, 'Impact of ASR on Concrete Structures and Attachments' by May 25, 2012" (Foreign Print 100716) by May 25, 2012 (ADAMS Accession No. ML12151A397)
17. NextEra Letter of June 8, 2012, for CAL Item 4, "Submit the corrective action plan for the continued assessment of ASR in concrete structures at Seabrook Station including development of remedial actions to mitigate the effects of ASR, where warranted, by June 8, 2012" (ADAMS Accession No. ML12171A277)
18. NextEra Letter of June 21, 2012, for CAL Item 8, "Submit the technical details of the testing planned at the contracted research and development facility by June 30, 2012" (ADAMS Accession No. ML12179A281 and ML12179A282).